

LARRY A. MAYER

Citizenship: U.S.

LARRY MAYER is a Professor and the Director of the School of Marine Science and Ocean Engineering and The Center for Coastal and Ocean Mapping at the University of New Hampshire. He graduated magna cum laude with an Honors degree in Geology from the University of Rhode Island in 1973 and received a Ph.D. from the Scripps Institution of Oceanography in Marine Geophysics in 1979. At Scripps he worked with the Marine Physical Laboratory's Deep-Tow Geophysical package, applying this sophisticated acoustic sensor to problems of deep-sea mapping and the history of climate. After being selected as an astronaut candidate finalist for NASA's first class of mission specialists, Larry went on to a Post-Doc at the School of Oceanography at the University of Rhode Island where he worked on the early development of the Chirp Sonar and problems of deep-sea sediment transport and paleoceanography. In 1982, he became an Assistant Professor in the Dept. of Oceanography at Dalhousie University and in 1991 moved to the University of New Brunswick to take up the NSERC Industrial Research Chair in Ocean Mapping. In 2000 Larry became the founding director of the Center for Coastal and Ocean Mapping at the University of New Hampshire and the co-director of the NOAA/UNH Joint Hydrographic Center. Larry has participated in more than 90 cruises (over 70 months at sea) during the last 35 years, and has been chief or co-chief scientist of numerous expeditions including two legs of the Ocean Drilling Program and five mapping expeditions in the ice covered regions of the high Arctic. He has served on, or chaired, far too many international panels and committees and has the requisite large number of publications on a variety of topics in marine geology and geophysics. He is the recipient of the Keen Medal for Marine Geology and an Honorary Doctorate from the University of Stockholm. He was a member of the President's Panel on Ocean Exploration, National Science Foundation's Advisory Committee for the Geosciences, and chaired a National Academy of Science Committee on national needs for coastal mapping and charting. He is currently co-chair of the NOAA's Ocean Exploration Advisory Working Group, Vice-Chair of the Consortium of Ocean Leadership's Board of Trustees, and a member of the State Dept's Extended Continental Shelf Task Force. He is also currently chairing the National Academy of Science Committee charged with evaluating the impact of the Deepwater Horizon Spill on ecosystem services in the Gulf of Mexico. Larry's present research deals with sonar imaging and remote characterization of the seafloor as well as advanced applications of 3-D visualization to ocean mapping problems and applications of mapping to Law of the Sea issues, particularly in the Arctic.

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Education:

- 1979 Ph.D. Scripps Institution of Oceanography, University of California,
San Diego, Marine Geology/Geophysics.
- 1973 B.S. University of Rhode Island, magna cum laude,
Honors program Geology.

Work Experience:

- 2004 - Adjunct Scientist – Woods Hole Oceanographic Institution
- 2000 - Professor and Director of Center for Coastal and Ocean Mapping
University of New Hampshire, Durham, New Hampshire
- 1991- 99 Professor and NSERC Chair in Ocean Mapping
Dept. of Geodesy and Geomatics Engineering, Univ. of New Brunswick
- 1988-89 Visiting Professor, Dept. de Geologie Dynamique, Univ. of Paris.
- 1986-91 Associate Professor of Oceanography,
Department of Oceanography, Dalhousie University.
- 1986 Visiting Professor Chair, University of Kiel, W. Germany.
- 1982-86 Assistant Professor of Oceanography,
Department of Oceanography, Dalhousie University.
- 1980-Present Adjunct Professor of Ocean Engineering,
Department of Ocean Engineering, University of Rhode Island.
- 1980-82 Assistant Marine Scientist, Graduate School of Oceanography,
University of Rhode Island.
- 1979-80 Post-doctoral Research Associate, Graduate School of
Oceanography, University of Rhode Island.

1979 Post-doctoral Research Associate, Marine Physical Lab,
Scripps Institution of Oceanography

1974-79 Research Assistant, Marine Physical Lab,
Scripps Institution of Oceanography.

Professional Societies:

American Geophysical Union, Oceanography Society, The Hydrographic Society

Honors and Awards:

Superior Honor Award – Department of State 2013

Class of 1944 Professorship – University of New Hampshire – 2013-2016

Vice-Chair Consortium of Ocean Leadership Board of Trustees 2013-

Chair – National Academy of Sciences Committee on Effects of Deepwater Horizon Spill on
Ecosystem Services in the Gulf of Mexico – 2011 --

Trustee – Consortium of Ocean Leadership – 2009 - 2012

University of Rhode Island – School of Oceanography Distinguished Alumni Award - 2007

University of New Hampshire Excellence in Research Award - 2007

Chair- Nat. Academies Committee on National Needs for Coastal Mapping and Charting , 2003

Member of U.S. Presidential Panel on Ocean Exploration – 2000

Doctor of Philosophy *honoris causa* – University of Stockholm, 1999

Geological Assoc. of Canada's Michael J. Keen Medal for contributions to marine geoscience –
1998

President -- Canadian Geophysical Union -- 1997 - 1999

Member, Minister of Natural Resources Canada National Advisory Board for Earth Science --
1996 – 1999

Member, Board of Directors Ocean Networks Canada, 2012-

Member, Board of Directors, Canadian Scientific Submersible Facility

Member, Board of Directors, ISOTRACE Laboratories, Toronto 1993 - 1997

Member, Board of Directors, Institute of Acoustics of Atlantic Canada – 1994 - 1997

Member, Board of Directors, Champlain Institute - 1996 - 1997

Vice President, Board of Directors, Atlantic Center for Remote Sensing of the Oceans 1993

Lansdowne Visiting Appointment -- University of Victoria 1991-1992

CONOCO Distinguished Lecturer, Woods Hole Oceanographic Inst., May 1987

Kiel University Visiting Professor Chair, 1986

Scripps Institution of Oceanography Dissertation Fellowship

Selected as Astronaut Candidate finalist for the NASA Space Shuttle Program

Phi Kappa Phi Honor Society

N.Y. State Regents Scholarship

Committee Memberships:

International:

Herzberg Medal Selection Committee – Natural Sciences and Engineering Research Council of
Canada – Member - 2010

International Review Committee – Natural Sciences and Engineering Research Council of Canada

Member – 2007

Scientific Board – Research Center on Ocean Margins, Bremen Germany – Member 2006-

Data Management Task Force – Integrated Ocean Drilling Program – Member 2006-

Scientific Planning and Policy Oversight Committee of the Integrated Ocean Drilling Program – member – 2003 - 2005

Scientific Planning Committee – Ocean Drilling Program and Integrated Drilling Program (Interim) – Member -- 2000-2003

Inter-Union Commission on the Lithosphere - Arctic Geology\Geophysics W.G. - Member

Executive of the Organizing Committee for the Conference on the Scientific Objectives of Ocean Drilling Beyond 2003

IUGS Task Group on Global Changes - WG1 - Member

Executive Committee of the Ocean Drilling Program – Member 1994 - 1998

US National Science Foundation Academic Fleet Review Committee – 1999

American Geophysical Union - Comm. on Education & Human Resources – Member 1993 - 1998

GEBCO -- Scientific Advisor

SCOR WG 100 - Member

Walter Munk Award Selection Committee -- Member

Nansen Arctic Drilling Program Scientific Committee - Chairman 1993- 1996

Sediments and Ocean History Panel - Ocean Drilling Program - Chairman 1987 - 1989

USAC Workshop on Sealevel -- Deep-sea Working Group -- Co-chairman 1989

American Geophysical Union Committee on Paleooceanography - Member - 1990 - 1993

National:

National Academy of Sciences Committee on Effects of Deepwater Horizon Spill on Ecosystem Services in the Gulf of Mexico – Chair -- 2011- 2013

Joint Analysis Group – Deepwater Horizon – member

NOAA Hydrographic Services Review Panel - member

NOAA Ocean Exploration Advisory Working Group– Co-chair

National Geographic OCEANUS TV series Board of Advisors

UNOLS Arctic Icebreaker Coordinating Committee - member

Interagency Task Force on the Extended Continental Shelf – member

OOI Program Advisory Committee – member – 2010-2013

ORION Cyberinfrastructure Committee - Chair 2002-2006

National Science Foundation Geosciences Directorate Advisory Committee 2004 - 2006

NSF Ocean Sciences Subcommittee – AC/GEO – Chair 2004 - 2006

NOAA – Hydrographic Services Review Panel

NSF – EWING Replacement Review Committee

NSF – Ocean Information Technology Working Group

NOAA – Conversion of the USNS CAPABLE – Requirements Working Group

National Academy of Sciences Committee on National Needs for Coastal Mapping and Charting – Chair – 2002-2004

President's Ocean Exploration Panel – A panel on ocean exploration reporting to the President of the United States – member 2000-2003

Minister of Natural Resources Canada National Advisory Board for Earth Sciences 1996-2000

Natural Sciences and Engineering Council's Committee on Research

NSERC Group Chair -- Solid Earth Science, Environmental Earth Science, Interdisciplinary

Committees 1997-2000

Canadian Council for ODP – Chairman – 1994-1998

Royal Society of Canada's Global Change Program (CGCP) - Working group
on Marine-Atmospheric Interactions - member

Marine Geoscience Committee of the Canadian Geoscience Council - executive member

Scientific Advisory Committee -- Marine Science Workshop

NSERC Strategic Grant Selection Panel -- member 1993 - 1996

NACOM -- National Action Committee for Ocean Mapping -- invited member

Canadian Planning Committee for ODP - member -- 1988 - 1991

NSERC Ad Hoc Committee on Research Vessels - Chairman 1992 - 1993

Canadian National Programme for JGOFS - Working Group on Paleooceanography and
Paleoclimate -- Co-chairman

Cruise Participation:

Participated in more than 90 cruises (over 70 months at sea!) over the last 35 years; have been chief or co-chief scientist of numerous expeditions including two legs of the Ocean Drilling Program and five mapping expeditions in the ice covered regions of the high Arctic.